

## METHOD FOR BACK-WASHING MEMBRANE SEPARATION APPARATUS

**Patent number:** JP9290141

**Publication date:** 1997-11-11

**Inventor:** YOSHIZAKI TAKESHI; ISHIHARA KATSURO;  
NARUKAMI YOSHIHISA; OZAKI TOSHIYA; IHARA  
HIROSHI

**Applicant:** KUBOTA CORP

**Classification:**

- international: B01D65/06; B01D65/02

- european:

**Application number:** JP19960103016 19960425

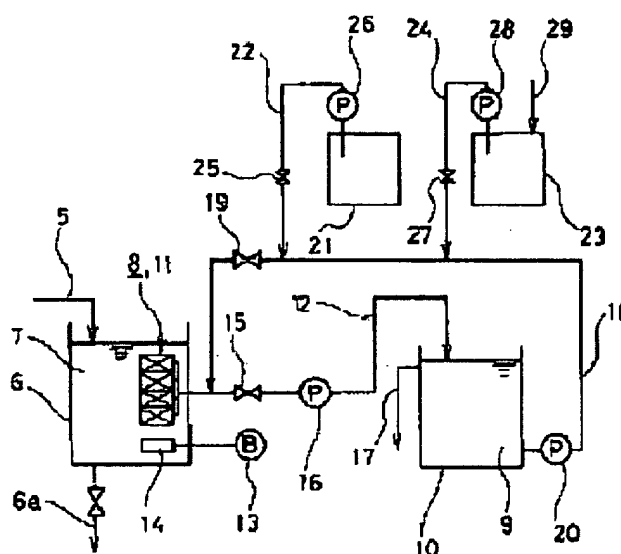
**Priority number(s):**

**Report a data error here**

## Abstract of JP9290141

**PROBLEM TO BE SOLVED:** To prevent the property deterioration of a separation membrane due to back-washing with the use of an oxidizing agent by a method in which adherend on the membrane is oxidation-decomposed by sending an oxidizing agent solution to the filtrate channel of the membrane as opposed to a filtration process, and then a reducing agent solution is sent similarly to reduce and dissolve adherent oxide

**SOLUTION:** Chemical washing is done at appropriate washing intervals while back-washing by filtrate being done appropriately during filtration operation. In this process, a chemical injection pump is driven with a back-washing pump 20 stopped, and the oxidizing agent solution of a chemical tank 21 is injected into a back-washing water supply pipe 18 so that organic substances etc., adherent to a separation membrane are oxidation-decomposed by an oxidizing agent. In back-washing, oxide produced by the oxidizing agent such as manganese dioxide from manganese ion in raw water 7 is deposited, and the deposit is sent with the oxidizing agent solution and the filtrate to adhere to the surface of the membrane. A chemical injection pump 28 is driven appropriately to back-wash a chemical tank 23 with a reducing agent solution to reduce and dissolve the oxide.



Data supplied from the **esp@cenet** database - Patent Abstracts of Japan